

CLAIMS

What is claimed is:

1. A connector providing an offset interconnect, comprising:
a dielectric body with first and second longitudinally opposed and laterally offset portions and an internal cavity;
an offset electrically conductive path disposed within the internal cavity, the offset electrically conductive path extending from the first portion of the dielectric body to the second portion of the dielectric body and including a compressible conductor disposed within the internal cavity in the second portion of the dielectric body.
2. The connector of Claim 1, wherein:
the compressible conductor comprises a compressible wire bundle.
3. The connector of Claim 2, wherein:
the compressible conductor further comprises an electrically conductive plunger in electrical connection with the wire bundle.
4. The connector of Claim 1, wherein:
the compressible conductor comprises a spring probe.
5. The connector of Claim 1, wherein the connector has a tuned characteristic impedance.
6. The connector of Claim 1, wherein:
the electrically conductive path includes a first conductor with a first end disposed in the internal cavity in the first portion of the body

and a second end disposed in the internal cavity in the second portion of the body, the second end of the first conductor being in electrical contact with the compressible conductor.

7. The connector of Claim 6, wherein:
the compressible conductor comprises a compressible wire bundle.
8. The connector of Claim 7, wherein:
the compressible conductor further comprises an electrically conductive plunger in electrical connection with the wire bundle.
9. The connector of Claim 6, wherein:
the compressible conductor comprises a spring probe.
10. The connector of Claim 6, wherein the first conductor is a bent conductive pin.
11. The connector of Claim 6, wherein the connector has a tuned characteristic impedance.
12. An assembly comprising:
a connector with a dielectric body with first and second longitudinally opposed and laterally offset portions and an internal cavity, an offset electrically conductive path being disposed within the internal cavity and extending from the first portion of the dielectric body to the second portion of the dielectric body and including a compressible conductor disposed within the internal cavity in the second portion of the dielectric body;

a component adjacent the second portion of the body having a mating portion in contact with an end of the compressible conductor.

13. The assembly of Claim 12, wherein:
the compressible conductor comprises a compressible wire bundle.

14. The assembly of Claim 13, wherein:
the compressible conductor further comprises an electrically conductive plunger in electrical connection with the wire bundle.

15. The assembly of Claim 12, wherein:
the compressible conductor comprises a spring probe.

16. The assembly of Claim 12, wherein the connector has a tuned characteristic impedance.

17. The assembly of Claim 12, wherein:
the electrically conductive path includes a first conductor with a first end disposed in the internal cavity in the first portion of the body and a second end disposed in the internal cavity in the second portion of the body, the second end of the first conductor being in electrical contact with the compressible conductor.

18. The assembly of Claim 17, wherein:
the compressible conductor comprises a compressible wire bundle.

19. The assembly of Claim 18, wherein:
the compressible conductor further comprises an electrically
conductive plunger in electrical connection with the wire bundle.

20. The assembly of Claim 17, wherein:
the compressible conductor comprises a spring probe.

21. The assembly of Claim 17, wherein the first conductor is a
bent conductive pin.

22. The assembly of Claim 12, further comprising:
a connector housing.

23. The assembly of Claim 22, wherein the connector housing
includes a first connector housing portion and a second connector
housing portion.

24. The assembly of Claim 22, wherein the connector housing
comprises metal.

25. A method for connecting a mating portion of a first
component with a mating portion of a second component,
comprising:

providing a connector with a dielectric body with first and second
longitudinally opposed and laterally offset portions and an internal
cavity, an offset electrically conductive path being disposed within the
internal cavity and extending from the first portion of the dielectric body
to the second portion of the dielectric body and including a
compressible conductor disposed within the internal cavity in the
second portion of the dielectric body;

positioning a first component with a first mating portion adjacent the first portion of the dielectric body such that a first end of the electrically conductive path is in electrical contact with the first mating portion; and

positioning a second component with a second mating portion adjacent the second portion of the body such that an end of the compressible conductor is in electrical contact with the second mating portion.

26. The method of Claim 25, wherein:

the compressible conductor comprises a compressible wire bundle.

27. The method of Claim 26, wherein:

the compressible conductor further comprises an electrically conductive plunger in electrical connection with the wire bundle.

28. The method of Claim 25, wherein:

the compressible conductor comprises a spring probe.

29. The method of Claim 25, wherein the connector has a

tuned characteristic impedance.

30. The method of Claim 25, wherein:

the electrically conductive path includes a first conductor with a first end disposed in the internal cavity in the first portion of the body and a second end disposed in the internal cavity in the second portion of the body, the second end of the first conductor being in electrical contact with the compressible conductor.

31. The method of Claim 30, wherein:
the compressible conductor comprises a compressible wire bundle.

32. The method of Claim 31, wherein:
the compressible conductor further comprises an electrically conductive plunger in electrical connection with the wire bundle.

33. The method of Claim 30, wherein:
the compressible conductor comprises a spring probe.

34. The method of Claim 30, wherein the first conductor is a bent conductive pin.

35. The method of Claim 30, wherein the conductor has a tuned characteristic impedance.

36. The method of Claim 25 further comprising disposing the connector within a connector housing.

37. The method of Claim 36 wherein the connector housing includes a first connector housing portion and a second connector housing portion.

38. The method of Claim 36, wherein the connector housing comprises metal.

39. A connector providing an offset interconnect, comprising:

a dielectric body with first and second longitudinally opposed and laterally offset portions and an internal cavity;

an offset electrically conductive path disposed within the internal cavity, the offset electrically conductive path extending from the first portion of the dielectric body to the second portion of the dielectric body and including a first compressible conductor disposed within the internal cavity in the first portion of the dielectric body and a second compressible conductor disposed within the internal cavity in the second portion of the dielectric body.

40. An assembly comprising:

a connector with a dielectric body with first and second longitudinally opposed and laterally offset portions and an internal cavity, an offset electrically conductive path being disposed within the internal cavity and extending from the first portion of the dielectric body to the second portion of the dielectric body and including a compressible conductor disposed within the internal cavity in the second portion of the dielectric body; and

a connector housing.

41. An assembly of Claim 40, wherein the connector housing includes a first connector housing portion and a second connector housing portion.

42. An assembly of Claim 40, wherein the connector housing comprises metal.